# XTAL

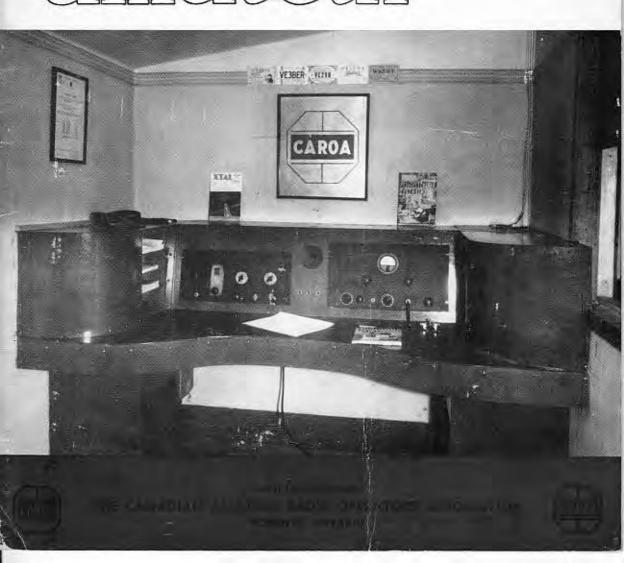
M A Y 1948

Vol. 10 No. 5

for the J. H. Doble, VE3ACG, Ashburn, Ont.

Pall Carry Cont.

Carry Co



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NEW A	MPHENOL ITEMS COM	
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66-209	71" Screweye Insulators for Flat Twin Line win Lead Antennas	14
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GL-811

## CANADIAN GENERAL ELECTRIC ::

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CAROA

### . . . EMERGENCY OPERATION . . .

We have learned of numerous examples in the past year of the readiness and willingness of amateurs across Canada to jump into emergency operations, where their efforts have been of great value to the public.

However, we suspect that there have been many similar opportunities for public service lost because of the lack of suitable equipment, available at short notice.

Another factor which we suspect has been overlooked is that when an emergency occurs the people requiring communication do not know that amateur radio may be at their call. It is imperative that amateurs who have available equipment for emergency use, register their name and address with the local telephone authorities, Red Cross HQ, and similar organizations.

There are usually two types of emergencies in which amateur radio can become involved. One is the case of a station operating under normal conditions at his home location, on the receiving end of the emergency traffic. Such a station is unhampered by lack of equipment, local telephone connections, light, power or accommodation. We believe that every Canadian amateur is prepared to assist whenever such an opportunity occurs.

The more vital and difficult case is where the normal power and communication services have been disrupted. Under such conditions the average amateur station is a total loss from an emergency standpoint.

Except in small communities where there is only one amateur station, we do not think that every amateur is required to equip himself with a complete battery-operated station. However, we do feel that where groups of amateurs are resident, organizations should be set up and equipment should be built on a co-operative plan which will function as an officient emergency outlet.

It is not sufficient merely to build the equipment. A panel of available operators should be set up and regular trials of operation should be made during the year. The summer is the most popular time for portable operation of all kinds and during the month of June ARRI, holds its annual Field Day. This is an excellent opportunity to put your plan into effect as well as to have a lot of fun without the troubles involved with a real emergency.

We urge all clubs, and groups of amateurs in remote localities, to see that they are prepared for any emergency which may befall their community. Let us show the citizens of Canada that they have an efficient and invaluable emergency communication service in Canadian amateur radio.

### HAM RADIO AGAIN TO THE RESCUE

Mrs. J. J. Hunt was critically ill in Baffin Land and was flown to Goose Bay Hospital, Labrador, for urgent treatment. Her parents live in Winnipeg, and they approach Ve4LF to see if he could find out exactl ywhere Mrs. Hunt had been taken, for they had heard that she had been flown to Halifax. Ve4LF therefore contacted VelET in Halifax, who at once telephoned all the Halifax hospitals, but only to find that Mrs. Hunt was not there. A kind-hearted switchboard operator, realizing the difficulty, contacted the Halifax Herald who found that Mrs. Hunt had been landed in Labrador. This information was relayed to Ve4LF by Ve1ET and the parents of Mrs Hunt asked if 4LF could contact a ham in Goose Bay. Conditions were apparently not favorable for a Ve4-VO6 contact, so Ve1ET volunteered to try to make a VO6 contact and then to relay the required information back to Winnipeg.

Well done, both Ve1ET and Ve4LF.

CAROA constitution committee, consisting of the president and vice-president, has made its recommendations to the executive committee. Most of the constitution, including the proposed election machinery clauses, has been rewritten. Discussion by the executive committee has produced several suggestions regarding composition of the board of directors: (1) One director for each call area; (2) one director for 100 members in a call area, two for 200, three for 400, four for '00, maximum of five; (3) a similar representation based on ham population, not membership. Equitable representation of all sections is desired. Expressions of opinion by members is invited.

### THE COVER PICTURE

The operating console shown in our picture cover is that of H. T. Crump, Ve3BH, Parry Sound.

# So You Want To Be a Ham!

By "Buck"

The unrolling of this literary carpet, brings to mind the story concerning an interview between an army examiner and a cook.

The A.E. asked the good man his profession prior to his career in the army and was informed that he had been a prominent banker.

"How does it happen that you are working in the Ulcer-Squad?" he asked.

"Well sir, it seems that somewhere along the line, an army clerk dropped the 'n' out of banker, and here I am!"

History repeated itself. One frigid morning at the incredible hour of 5.45, we were drooping at attention on a parade-square, where a sergeant (whom I found out later, you must NEVER salute!) was allocating us excitizens to various branches of His Majesty's Finest. As I stood there, swaying like an 80-foot tower in the morning breeze, visions of swank offices, cigars, and me; Little ole ME, complete with ten pips on each shoulder, surrounded by a bevy of smiling CWAC's — and putting the ashes on the carpet, too, rose before my eyes.

When suddenly, this khaki-clad pillar of strength stood frowning in front of me. "Ah hah!" said he, "and what have we here? Corporal! Will you check this mass of khaki cloth and see if there is a body inside of it? Never mind, I think I heard a faint sneeze somewhere up by that bulge at the top."

After a brief scuffle we were properly introduced and he located me on a mysterious piece of paper that he clutched in his hand.

"So, you were an accountant before you came to us, heh! Well, well, well, well!" (I found out later that he was drip — but he didn't have to advertise it then!) "So, you like music too, do you? Well, well, well! I'm going to send you to a wonderful place where they'll let you listen to beautiful music all day long! Corporal! Take this man to the SIGS wing!"

At last! At long, long last, I was moving into my dreamed-of sphere! I was going, evidently, to the Society Involving Gin and Seegars. SIGS, how I rolled that lovely phrase over and over in my mind as I staggered after the corporal with fifteen tons of army equipment.

Then came the dawn! Those cursed initials!

The music that they talked about was composed of confusing dits and dahs, and SIGS turned out to be Section Including Garbage and Sanitation! Yes! I guess I turned out all right. Here it was VJ day and I was still alive and had three shining hooks on my arm. I had completed a four-year holiday and learned to eat everything with a pocket-knife and realized that snake-eyes was not a zoological term and that box-cars are not restricted to railways.

After a while, that yearning to pound the ole brass started to creep slowly upon me, and on top of this, I used to hear some joker on my acey-deecy set called Victor Easy who was evidently the third one in his family called by this name. He was always boasting that his brother Adam had Baked a Zebra. For houra and hours he'd chant, "Seek you, seek you, this is Victor Easy number three Adam Baker Zebra!" I thought he was a dope, though, 'cause no one ever answered him.

One day, the whole thing became disgustingly clear. I was standing by the counter at one of the local radio stores, quietly munching my lunch, when I noticed a bunch of funnylooking post-cards on the wall. "What are these cards for?" I mumbled to the clerk.

"Why, dontcha know? They are QSL cards, that them there radio hams send to one another! These guys talk to each other in code and voice from their very own stations. If you want to get in on it, why don't you see the R.I.?"

"Take it easy on those initials, Bub! Look what they got me into the last time!"

"Oh," he said, "the R.I. is the Radio Inspector! He's the fellow that gives you your license and tells you how many kilocycles you can run."

Bright and early on Saturday morning, I banked up the furnace and sneaked out of the cellar window. I was off to the R.I.'s to ply him with questions and find out about this ham thing.

I met this kind gentleman and he loaded me up with a hig bunch of papers and documents and bade me a fond farewell,

I can still see him standing in the doorway with tears coursing down his care-worn cheeks and waving goodbye with a copy of PMG's instructions and muttering over and over to himself, "He looked like such a sane chap, too!"

Next lunch-hour I rushed into the radio store with a roll of bills clutched in my hot. little hands, "Quick, gimme a handbook, a

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### A Compact

# **50-WATT TRANSMITTER**

By Bob Hazlett, Ve3RH

Here is a compact, complete transmitter rated at 50 watts input on phone and 100 watts input on CW. The author does not claim any originality in circuit design, but has adapted various ideas which finally evolved as the rig shown in the photograph.

No attempt was made to incorporate bandswitching, which would have complicated things considerably. The main thought was to keep the rig straightforward and simple to construct.

The transmitter uses an 807 crystal oscillator with provision for VFO input, link-coupled to a pair of 807's in push-pull, with another pair of 807's as modulators. The power supply delivers 500 volts DC at 300 Ma. One of the features of this little rig is that it is built on a cadmium-plated chassis 17" x 14" x 3", which is quite compact considering that you have everything on it, RF, speech amplifier, modulator and power supply.

### The Circuit

A glance at the circuit diagram will show that the 807 crystal oscillator is the familiar Tri-Tet. A 6L6 or 6V6 oscillator tube could have been used, but high wattage series dropping resistors would have to be used to reduce the voltage from 500 volts. An 807 tube was finally decided on by incorporating a very novel idea of connecting a 250K volume control in series with the screen dropping resistor to ground and the centre conection goes to the screen, which by cranking the control will vary the screen voltage from zero to + 300 volts. In other words, you can name your grid current to the final amplifier from



zero to what you can get out of the 807 oscillator. The oscillator plate coil is a B & W Baby Inductor mounted on top of the Hammond tuning capacitor with a five-prong isolantite socket and small angle brackets. The plate current to this stage is 10-15 Ma. when delivering 10 Ma. grid current to the final. The screen voltage is only 90 volts and there is no crystal heating.

The oscillator stage is link-coupled to the final coil using the same method of mounting as in the oscillator; a B & W Baby Inductor centre linked (fixed) is used in this grid coil. The plate coil is mounted the same way. In my own rig I use a Johnston variable inductor but a B & W 150-watt unit could be used just as well.

The final amplifier is neutralized by having an aluminum plate ½" wide x 1½" long mounted on feed-through insulators facing the plates of the 807's and crossed underneath to each grid. There is a switch on the front panel for cutting of the screen voltage when neutralizing, the plate voltage can easily be removed by disconnecting the B+ lead to the final plate coil. The swinging link is connected to two feed-through bushings on the rear of the chassis.

### The Modulator

The modulator uses two 807's with voltage regulation on the screens, which holds the screen voltage constant, assuring good audio output. A 15K 10-watt adjustable resistor used for the screens. With the lead to the screens disconnected and a milliameter in series with the VR tubes to ground, adjust the resistor until the VR tubes draw 30 mills.

The modulation transformer is a Hammond 30-watt job. There is a switch on the front panel which does two functions; when you switch from fone to CW it short-circuits the secondary of the modulation transformer and removes B+ from the modulator and speech amplifier. You will notice that there is an increase in plate current and output in the final when you switch to CW. This is normal as there is no voltage drop across the secondary of the modulator transformer when the switch is in that position. The speech amplifier used two 6J5's resistance coupled and another 6J5 transformer coupled to the 807 grids, Three hundred volts is needed for the speech amplifier, which is obtained through a 30K 10-watt dropping resistor and a 30-henry 40-mil choke to the speech amplifier.

No special comment need be made pertaining to the speech and modulator circuits except that the input transformer is a Hammond 800 series and is parallel fed to the plate of the 6J5. No plate current must flow through the primary winding. The screen voltage from the regulator tubes is by-passed with a .002 mica condenser and then fed through 100-ohm resistors to each screen to remove any traces of oscillation or instability. To clear up any high frequency hash which may be generated by the modulator tubes, a .002 mfd. condenser was connected across the modulator tube grids, also a .01 mfd. mica condenser across the secondary of the modulation transformer. This condenser should be a 1000-volt unit. An antenna relay was incorporated to switch the antenna from the transmitter to the receiver.

### The Power Supply

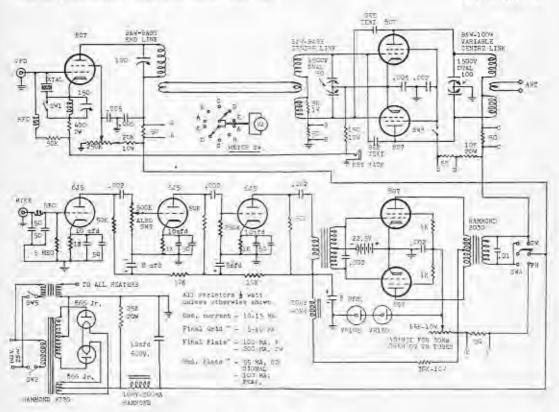
There is a separate transformer used for filaments, a Hammond 6.3 volt at 6 amps for all heaters and 5 volts 3 amps for the rectifier tubes. Two rectifier tube sockets are provided on the chassis for either a pair of 866 Jr. tubes or one 83. The builder can use whatever he chooses, although I prefer 866 Jr. because 625 volts on the plates of the 83 tube is quite severe. You will notice that the

rectifier tube sockets are wired in series to give 2½ volts each to 866 Jrs. A four-prong tube base with the filament pins shorted and plugged into one socket will give five volts in the other for an 83.

Tuning the rig is simplicity itself. Plug in a 40-meter crystal in the crystal socket and a 40-meter cathode coil and a 20-meter plate coil in the oscillator. Switch the meter to the first position and tune the capacitor for minimum plate current. During this tune-up the final plate coil should be removed from the circuit and the screen voltage switch open.

Switch the meter to the second position to read grid current to the final tubes. With the meter in this position and a 20-meter grid and plate coil inserted with B+ removed, vary the excitation control from zero to read 10 Ma. grid current. Switch the meter to the fourth position to read plate current and apply plate and screen voltage, swing the tuning capacitor rapidly to resonance, the reading will be about 55 Ma. Connect the antenna to the two standoff insulators at the rear of the chassis. Apply plate voltage. Swing the link closer to the plate coil and the plate current will start to increase; draw 100 Ma, and then retune the final to minimum plate current,

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### CAROA 4-in-1 Contest Results

Ve's from coast-to-coast were invited to take part in the Four-in-One contest Feb. 7 and 8. While the contest was not a howling success due to bad conditions on most bands and lack of Ve's participating, a good time was had by all. The general idea was that stations could pick their favorite band and go to work, thus having greater chances of winning a certificate.

Some comments received after the contest said that maybe there weren't enough Ve's to go around and so they were only spread thinly over the bands. However, it was an experiment in one-band . . . pick your band . . . operation, and before the next contest ample time will be given for stations to prepare themselves for the party.

In looking over the result you find that it does not take high power to win a contest, but a good VFO certainly helps.

The 7 Mc hand showed a little more activity than the other bands.

Several of the high-scorers complain at their low score which was only due to a small number of stations taking part in the affair. Now for the individual reports:

Ve2XR used only a 6L6 final running 25 watts to chalk up an excellent 80-meter score. Floyd says that at times there wasn't a single Ve station to be heard. He also says that he is now firmly convinced that a Ve can't build a good VFO, as most of the notes were terrible. Floyd used a xtal.

3KE also rang up a good tally in spite of bad conditions on the 3.5 Mc band (396 points).

1PA put a consistently good signal into Toronto on 7 Mc. Using 75 watts to an 807, he worked five districts although he was disappointed in his score of 210 points.

2WK won himself a certificate with 20 watts to a 6L6 on forty meters. We are sorry to see that his xyl—Ve2HI—didn't make the grade, but it wasn't for want of trying. Better luck next time, Ethel.

3XY ran up the excellent score of 540 points with only 30 watts to his final. He worked six districts on his favorite 7 Mc band. Bill says at least you can get xyl QSO in a contest which is rare in CW QSO's in St. Kitts. Ever try 14 Mc, Bill? Incidentally, although 3XY is a real old timer, this was the first contest he ever entered.

4DG used a VFO to an 807 final running 25 watts input to snare his certificate. The antenna was a 40-meter Zepp.

5QZ ran up the impressive total of 504 points using a two-stage VFO exciter, which was

described in May 1946 XTAL. QZ is one of the station suggesting elimination of the "oneband operation" rule. He also suggests that future Ve contests be advertised over W1AW vy fb idea.

Letters not enclosing logs were received from Mike Wormley and M. R. Flynn.

The highest scoring stations are as follows:

### 3.5 Mc Band

Ve2XR, 25 watts, 21 contacts, time 3½ hours, worked 3 districts, 189 points; Ve3KE, 75 watts, 33 contacts, 9 hours, worked 6 districts, 396 points.

### 7 Mc Band

Ve1PA, 72 watts, 21 contacts, 8 hours, 5 districts, 210 points; Ve2WK, 20 watts, 12 contacts, 8 hours, 2 districts, 72 points; Ve3XY, 30 watts, 30 contacts, 12 hours, 6 districts, 540 points; Ve4DG, 25 watts, 10 contacts, 7½ hours, 6 districts, 150 points; Ve5QZ, 25 watts, 24 contacts, 11 hours, 7 districts, 504 points; Ve6KS, 50 watts, 12 contacts, less than 12 hours, 6 districts, 144 points; Ve7FG, 50 watts, 19 contacts, 12 hours, 5 districts, 190 points.

### 14 Mc Band

Ve1PM, 25 watts, 26 contacts, 10½ hours, 5 districts, 390 points; Ve3QP, not given, 32 contacts, 12 hours, worked 8 districts, 256 points; Ve4RP, 93 watts, 24 contacts, 10 hours, 7 districts, 336 points; Ve6TK, 225 watts, 25 contacts, 8½ hours, 7 districts, total 175 points.

#### 28 Mc Band

Ve3ACJ, 30 watts, 51 contacts, 10 1/2 hours, 4 districts, 612 points (all on phone).

### Monitoring Section

Robert F. Eastman, Mountain San, Hamilton, Ont., turned in a very neat complete log of 76 stations heard in 7 districts, which gave him a total of 532 points. His total 12 hours of monitoring time was spent on the 3.5, 14 and 28 Me bands.

Other stations submitting logs for the contest:

### 3.5 Mc Band

Ve2FG, power 14 watts, 162 points; 2GM, 20 watts, 153; Ve3APS\*; 3ATR, 40 watts, 194; 3AWE, 75 watts, 84; 3AWI, 17 watts, 36; 3AXQ, 95 watts, 210; 3BAJ, 30 watts, 15; 3BG, power not given, 69; 3BMG, power not given, 34; 3BNX, 35 watts, 169; 3BSJ, 60 watts, 30; 3DU, 70 watts, 72; 3FC, 25 watts, 254; 3GI, 60 watts, 210; 3IR, 300 watts, 84; 3TM, 75 watts, 104; 3ZE, power not given, 90\*.

Ve1ER, 30 watts, 100; 1IW, 30 watts, 108; Ve2H1, 150 watts, 48 (YL); Ve3ACB, 28 watts, 372; 3AFO, power not given, 250; 3ANO, 30 watts, 450; 3BNX, 90 watts, 324; 3BCJ, 35 watts, 260; 3BRF, 12 watts, 345; 3DN, 50 watts, 84; 3EK, 60 watts, 504; 3MI, 20 watts, 198; 3WK, 40 watts, 120\*; Ve4, only one log received; Ve5, only one log received; Ve5, only one log received; Ve6CU, 97 watts, 104; Ve7ABQ, 70 watts, 42; 7AFI, 5 watts, 120; 7CU, 80 watts, 36; 7YL, 100 watts, 144 (YL); 7XX, 95 watts, 44.

### SWL Monitoring Stations

R. W. Roberts, 112 Earlsdale Ave., Toronto, Associate CAROA No. 2092 and BE Receiving Station No. 712, turned in a very nice log. Heard 31 stations in eight districts with a total of 248 points on the 28 Mc Band only.

Don Steele, 104 Elizabeth St., Chatham, Ont., Associate CAROA No. 3130, heard 32 stations, 2 districts, total 64 points, on the 3.5 Mc Band only.

We received a letter but no log from J. A. Dobell. Kincardine, Ont., CAROA No. 2387, who heard Ve1IH, Ve2BW, Ve4AU, Ve5XU, Ve5NA and Ve7RV making coast-to-coast coverage on the 75-meter Phone Band. All were QSA5 from 7 to 9. This was on a S40A receiver.

Walter Guillot, of Windsor, Ont., CAROA 2515, sent in a very nice neat log with 45 stations heard in three districts, to total of 135 points.

6KS had to contend with the handicap of working on an evening shift at Cowley Airport in Alberta. Nevertheless, in less than twelve hours he worked six districts.

7FG is another of the medium power boys who came through. Using fifty watts to an 807, he worked five districts.

1IM was high man on 14 Mc, although he had quite a job making contacts. According to his log, he made all the contacts on phone with a power of 25 watts. Gord's score was 390 points.

3QP also ran up a nice 14 Mc score by working all eight districts. He had tough luck in burning out his transformer in the middle of the contest, but — even at that — he tallied 256 points.

4RP used 95 watts input which was fed to a three-element beam on 14 Mc. Rudy scored 336 points and worked seven districts. Thanks for the picture of the beam, Rudy. It's a honey.

6TK sent in a nice log even with only eight and a half hours of operating.

3ACJ was the only station to send in a log for 28 Mc operation, and it was a dandy. He ran up the highest score of any station in the

### VHFin CANADA

Conducted by GORDON COLEMAN, VESANY

The situation in regard to this column gets increasingly worse. This month there is very little to report. We know that there is activity on the frequencies above 50 Mc, as we read about it in QST and CQ. The reason that you do not read about it in this column must be quite obvious to those of you who have thought of writing us, but who have not yet done so. We hoped that the CAROA VHF Marathon might stimulate interest in reporting your VHF activities, April 5 was deadline for receiving reports of the first month's participation. It is now April 10 and we have only four reports at hand. A conservative estimate of the number of stations active above 50 Mc in Southern Ontario alone, Can it be that the 56 or so stations that did not report have the interests of VHF so little at heart that they don't care if there is an increase of activity or not? This contest was to show the predominantly LF amateurs that there was something doing on VHF. Frankly, we are disappointed. Here was your opportunity to carry the ball, and you have muffed it!

To continue a column such as this, we must have regular reports. They must also be numerous. It is impossible for your conductor to be active on all bands at once, scrounging up news. Besides, news gathered over the air has a habit of being, in some cases, inaccurate. It's up to you!

And now for what news there is: Ve3BRF, Midland, Ont., is thinking about VHF and has an RHL-32 receiver to convert. 3BSJ, Parry Sound, Ont., is getting interested in VHF. We have pointed out the possibilities for the Georgian Bay area in previous columns. 3AHE, Ottawa, is just about ready for 6-meter portable-mobile, as is 3DJ, Toronto. From Ve3AJS in Belleville we hear of 10 stations active on 50 Mc and 3BPQ and 3BND on 235 Mc. Regular "round-table" skeds are kept, and their radio club has offered to present an 832-A VHF twin-pentode to the first station to work more than 50 miles from Belleville on six meters.

Here are the reports for the VHF Marathon: 3BBW, Ottawa, reports 18 QSO's on 144 Mc for 36 points; 3OJ, Ottawa, reports 18 QSO's on 144 Mc and two on 50 Mc for 38 points; 3AID, Willowdale, reports one crossband (235-144) and one QSO on 235 Mc for a total of 20 points; 3ZE, Lansing, reports one crossband (144-235) and one QSO on 235 for a total of 12 points; 3ANY's log shows 51 QSO's with 48 different stations on 50 Mc, 48 points plus activity bonus of 26, for a total of 74 points. 3ZE and 3ANY are not eligible for awards.

contest (612 points), and all were phone contacts. Who says there are not many Ve's on the ten-meter band?

# DX NEWS OF THE MONTH

R. D. Carter Ve3QD

First of all, may I express my sincere appreciation for the many nice letters that have come in since the first column appeared. It was gratifying to find that so many of you took the trouble to write, and I hope that it will just be the beginning of many more from you all. Such letters put a new zest in the task and the information contained really helps to keen the news before all the Ve's.

Now to serious business. As we predicted, the annual A.R.R.L. contest took a beating here in Canada and the highest scores ever were rolled up. We know of at least three over the 100,000 mark and another that's very close to this, and that's away above anything ever attained in the past. For the first time it looks as if the Pacific coast will be top man and it is with much pleasure that we say this, as it's the first time in our recollection that this has been done from Ve7. As it's not our contest, we don't feet free to release any claimed scores, but we will go this far and tell you that the known highs are one in Ve7, one in Ve4 and the other two in Ve3. There may be others, but they haven't come to our atten-tion and maybe a "dark horse" hasn't come across yet. Conditions in the last session were generally a hig disappointment and some bands were almost flat a big part of the time. Twenty was the biggest flop, and apart from the South Americas there were hours at a time when nothing was coming through. Forty was only fair over most of the country. Ten was really erratic and we will deal with this later on. Eighty was the big band, as you will see when you hit the reports. All in all, it was a grand contest and will be long remembered by those taking part. The phone sessions were quite good and enabled a number of the fone fraternity to work some very choice dx. Asia was added by many by the XC6's, two of which were rolling in here for hours at a time. Anyone who could work 10-11-20 and 80 should have a good score. We have no fone scores, so that's why we can't give you any hints here. One thing I will say is that we're glad to see that the Ve's haven't yet stooped to the tactics employed by a number of the more powerful W's - busting into QSO's and hoping by brute force to get in. Let's keep it that way. One thing I did notice was the futile practice of calling CQ DX. Now that, in a contest where one call will net a station outside the Ve/W zone dozens of answers, is really a waste of time, to say nothing of the needless QRM. Try ealling instead, and see how much farther you will get.

80 Meters

As we said before, this band was really wide open, and fortunate indeed was the ham who could take advantage of it. Ve7HC worked no less than 15 countries on this band, and that from the coast is something. Those worked were TG9JK, KS4AI, ZFIA (Mexico), ZL1PO, G6CJ, KV4AA, VP7NG, KZ5AX,

VK2ANN, J3AAD, CM2SW, CE3AG, HC1JB, KL7 (3), KH6 (3). Another hot performer was 3KE, who knocked off 21 countries, missing only Asia for WAC on that band. He even heard that, but J3AAD quit just at that time due to QRN. Guess that V beam of yours is doing its stuff, Vic. Incidentally, the feeders are tuned and 420 feet long, That feeder would make a lot of us happy for an antenna. Ve4RO was despondent over the poor conditions on the other bands and in desperation haywired a rig together to work four countries. He says he'll be in there pitching next year. On March 17 (38VB, Ve1EI, Ve2AL, Ve3MB, Ve3QB, CO7CX, HH2CW and VP6CDI had a round table on 75 Meter fone. That should take some beating. 3QB was using a single 807. Nice going, Bert, and something to feel proud of. GSVB has worked all W districts as well as all Ve, including Ve8 on fone, Who says low power doesn't get out?

40 Meters

This band is still producing some nice dx, but on the whole it isn't as good as it was a year ago. 3BHX continues activity and worked 10 countries in five continents. 4RO worked 30 countries for WAC. 7HC contacted 30 countries. Yours truly could only raise 21. However, we did nail Asia for the first time on this band. 3KE had 32 countries.

### 20 Meters

This one continues to be erratic, and it's about time it settled down. Lots of nice ones have been found here in the short openings, and it is still the best dx producer of them all. The reports are so numerous that we won't attempt to analyze them, but will comment on the choicer ones under the general heading.

#### 10 Meters

Has fallen off a lot, and as the warmer weather approaches we can look for poorer conditions. During the second part of the dx test the most unusual situation prevailed here and that was that nothing north of the equator came through but everything south thereof was rolling through in fine style. Eleven meters was an eyeopener and the signal strength at times on that band was amazing. It was a real treat to call a station there and get him with one or two ealls. Somewhat different than ten where they were lined up ten deep or more.

Hodge Podge

3BBN continues with fone and has his countries up to 42 now with MI3ZJ, LASC, J9AAR, HL2AJ (Manchuria), VQ4GWB, KG6AW and others for WAC. 3BLY was one of the many confused by XF1A (Mexico), our old friend XE1A. It sure got attention, though, 2WW and 2AX had a close race in the contest and only a single contact separated them. A nice one for Don was FQ3AT/FE, also MI3ZJ among 65 countries for March. 1EA's report

for February was too late for publication, but the highlights were 43 countries. He also lists nine stations in Europe on 80. Keep it up, Clarry. 1AQ had the misfortunte to be transferred lately and will now have to start all over in Ve2. Tough luck Don, and let's hope you do as well there as you did in NB. 3TB keeps plugging away but wants to know how to get Asia. We've all given him advice, but a new beam going up should help. 3BHX is moving to a new QTH and when set should jump those totals of his. Hear from Ve4RO, and among other interesting bits of news is the fact that he's still sneaking out that mike every little while. First thing we know he will be a phone man. Answay he admits it which is more than we do. George is up to 67 countries on fone now and new ones were C1, EL5A, KV4, HL for the best. 7HC put a jet propulsion unit on his rig and it paid off with 15 countries on 80, 30, on 40, 70, on 20, 9, and 11, and 20, and 10. 80, 30 on 40, 79 on 20, 9 on 11 and 20 on 10. That's dx, Gord, and we're all pleased to see the coast so ably represented. From 1PQ we are advised of 34 countries in March, all worked on an 80-meter indoor antenna. And so many of us can't even get up one outside. A nice letter from 6FK, to whom thanks go for some of the OTH's listed. He worked ZS1CG on fone the long way around, also got a 50 db over S9 from Shanghai on fone. The voice added YS1, ZC6, MD5, J9 and PK3 as well. 8AS for our first Yukon report was WAC on fone with S9. 3AVA. ex-5MD, has been going great guns from Malton and a new addition to our PW list. He enclosed a letter

~ QVE ^

### **CAROA Official Broadcasts** 75 Meters Each Thursday 9 p.m. Local Time

The undermentioned stations have been appointed as CAROA Official Broadcast Stations. Be sure to listen for your district OBS for latest messages and bulletins of interest to all Canadian amateurs.

Ve1GD-3835 Ke-H. A. Garland Ve2HL-3802 Ke-J. W. Labelle Ve3QB-3835 Kc-W. B. Knowles Ve3CP-3775 Kc-T, Hunter Ve4? -The Ever Silent District Ve5FA-3848 Ke-W. A. G. Simpson Ve5GA-3310 Kc-W, T. Rogers Ve6OD-3801 Kc-E. A. Anderson Ve7FB-3825 Ke-H. E. Savage Ve8AS-3820 Kc-J. Spail

received from HSISS as a result of a QSO. The letter in part says: "Very sorry to inform you, OM, but you worked a pirate. Your card makes the 26th that I have had to return for that date." Tough luck, Woody and we under-stand a couple of other Ve?'s were also dis-appointed the same night. Such a nice zone, too. Ve5AQ has an understanding xyl who writes in to say the OM worked 20 countries in February, including J9AAI, VK7AJ, ZS6U, OZ7G, VP5AS. Where's the South American for WAC? This with 60 Watts and a three element "plumber's delight." Last but not least, a list of 37 countries from a newcomer to our ranks, 3BWY, ex-G6WY, who will be remembered by all pre-war dxers as the chap who regularly appeared at the top of the world dx lists. Welcome home, Ham, and the rate you are going you will soon be back with the leaders. His WAC in the first 10 days has some of the boys here tearing their bair. He says he basn't really been trying but concentrating on renewing old friends in G, and the 110 worked so far backs this up. He is working on WAS also and the 26 states so far shows he hasn't lost the old touch.

Well, gang, that's all for this month, and if I've overlooked acknowledging any letters please forgive me and know that they are all

very much appreciated.

### DX PW Totals

Sorry we have to limit the list to those over 50 countries, but space is still short.

Ve3QD	158	Ve6FK	83
Ve4RO	158	Ve1AQ	79
Ve7ZM	155	Ve7EHS	72
Ve7HC	143	Ve3BBZ	72
Ve1EA	118	Ve5JV	65
Ve3IJ	117	Ve6AO	64
Ve2WW	103	Ve3TB	62
Ve3AAZ	102	Ve3QB	62
VeIPQ	102	Ve1NE	56
Ve3AVA	100	Ve4RP	55
VOGEP	100	Ve8AS	53

### QTHs

HP1YF—c/o Ocean Freighting Brokerage Corp., 80 Broadstreet, N.Y.C. 4, N.Y. KG6BV—A.P.O. 234 c/o P.M., San Francisco. PK6XA—Bert Eakrysman, c/o N.N.G., P.M., Marotai Island, N.E.I.

PK3WG-Sergt. W. William Graastra, 102 Oldenbarneveldt St., Amsterdam, Holland. M13ZJ-Via R.S.G.B.

CT2M-Jose Tenuri, via Appolfari, Horta,

The above by courtesy of SBHX, 6FK and 3BWY.

Late Report-Ve5JV (Regina) notices an absence of Ve5 reports which he regrets, and tells us he induced 35 countries to answer his calls in March. The best of these include J9 (Okinawa), KL (Korea), VP7, KS, OX, CE, OA, HC, CX and Ve8 (Baffin Island). He wants to see A.R.R.L. contest deferred until the fall.

FLASH-We are informed that Ve7HC has worked CSYR in Zone 23. When the card arrives, 7HC will be the second Canadian to accomplish this rare feat.

# CTIVITIES

The ARRL annual field day, June 12-13, should be an excellent opportunity for clubs to compete for the very fine cup donated by the Canadian National Carbon Company, a picture of which appeared in XTAL for May, This cup at present is held by the West Side Radio Club of Toronto. They give notice that they will strongly contest the wresting of this very fine trophy away from the Toronto area. What say, western Canada?

We regret that there is no news from clubs in the maritimes. However, better luck next

We recently received a copy of "Sky Wire Bulletin" of the Montreal Amateur Radio Club. They are extending their club members the convenience of instalment payments for the ARRL annual convention to be held in Mont-real, Oct. 8. The "Food for Gees" fund con-tinues to be supported and a grand total of \$177.86 has been subscribed to date. Thirty parcels have been dispatched already, and each parcel contains one tin chicken, one pound cheese, one tin lobster, one tin fruit, one tin meat and five chocolate bars. Preference is being given to British hams living in large centres, as it is understood that food is somewhat harder to obtain there than in rural districts. Several interesting letters published in their club paper are convincing evidence that the boys across the pond thoroughly appreciate this fine gesture.

A new club has reported in! Greetings to the Sudbury Amateur Radio Club. The officers are as follows: President, P. Ogilvie, 3AXE; vice-president, Alex Robinson, 3BBC; treasnrer, J. Rumball, 3BUS; secretary, B. Chin-nick, 3AOG. Sixteen Sudbury amateurs were present at the first meeting held March 18, 1948. CAROA joins with all clubs in Canada

in wishing you every success.

The Quinte Amateur Radio Club, Belleville, Ont., now has a membership of thirty-six hams and SWL's representing the communities of Trenton, Picton, Woller, Stirling, Campbellford and Bellevelle. Meetings are held on the fourth Wednesday of each month at the Belleville Kiwanis centre. Visiting hams and their friends are extended a cordial welcome. A hobby show has been planned for the last meeting in April and prizes will be given for noteworthy displays. On March 24 Sgt, Johnstone of the Trenton R.C.A.F. depot gave a talk on radar. Following the meeting groups were organized to visit local amateur stations. The club has discussed affiliation with ARRL, "QRM," a lively mimeographed paper printed by the club, contains interesting and informative local news.

The March meeting of the London Amateur Radio Club was held in Maguire Motors Bldg. Guest speaker of the evening was Mr. Kahant of the International Resistor Company, who gave a talk and showed a film on the making

of resistors, volume controls and potentiometers. The L.A.R.C. is joining the Ontario Phone Club in the forthcoming Southern Ontario picnie.

There seems to be a wave of enthusiasm for club papers. No exception is the Frontier Radio Association, who publish an excellent bulletin called "MIM." The executive board have called together a list of functioning committees, members of whom have been especially chosen for their suitability. The field day committee is busily making plans and rounding up equipment under the direction of W. Andrews, 3WA, assisted by S. Clark, 3FP. A recent edition of MIM carried a very fine article on NFM by 3FU. During the recent hurricane scare, 3AHL's emergency twometer gear was alerted and made ready to move into the disaster area. Fortunately, its use was

not necessary.

The annual election of the Winnipeg Amateur Radio Club was held in the board room of the Winnipeg Free Press Building. Elected to office for the new term were: President, Al Jebb, 4TJ; vice-president, Don Taylor, 4QV; secretary, Leone Young; treasurer, Len Cuff, 4LC. The treasurer's report revealed that there are a total of eighty-three paid-up members. Financially, the club is well out of the red. Rudy Peters, 4RP, a member of the technical committee of the W.A.R.C., along with Stuart Talbot, 4SR, were instrumental in aiding a recent QRR. Emergency traffic concerning an arctic mercy flight to rescue an Eskimo child who had been badly burned at Cape Dorset, Baffin Island, was relayed to R.C.A.F. headquarters in Halifax. The Winnipeg Tribune paid high tribute to these two helpful hams in a two-column headlined article. Three other club members, Alex Parm-ley, Hugh Dollard and Al Jebb, were quoted by Mr. Peters as assisting in the emergency traffic. The rescue, which was successfully carried out, was at the scene of the Nascopic wreck. Orchids to all who participated for a fine job carried out in true amateur tradition!

The annual election of the Wireless Association of Ontario was held at the March meeting. Officers for 1948 are: President, W F. Brennan, 3KA, and secretary-treasurer, Fred Rey-nolds, 3TC. Following the election an interesting address was given by Al Porter, 31Z, who described and demonstrated a portable-mobile

VHF transmitter-receiver.

The Southern Alberta Amateur Radio Club is busily planning a social night, and their exhibit at the Lethbridge Exhibition and Rodeo. Walter Jordan gave an interesting talk on refrigeration at the February meeting. The club plans for field-day are progressing, and two stations will be active, one battery-powered. Park Lake was suggested as providing a suitable combination of sand and mosquitoes for the event.

# NATIONAL REPORT

### Vel

Ronald J. Hesler, VelKS, DR, Box 160, Sackville, N.B .- KC passes along the following dope on the boys at the C.B.C. stations in Sackville: GH, that lad of Lunenburg fame prior to the war, will at last be heard on the air waves again after too long an absence—he plans twenty and ten fone operation. WT has his antenna up, has a new AR88 receiver and has his transmitter nearly completed. HF hopes to be on the air again soon but says that he is terribly busy at the present time training a junior operator. RY is not on the air yet but the boys hope to be able to talk him in to it yet. SH is active on 40, 20 and 10 and is using the antenna poles which were left by QF and SY when they pulled out for the West. KC operates on all bands on fone and CW using about 150 watts to a single 813 prior to mid-night and 500 to a pair of 813's after midnight (why the midnight deal, Nip? As if we didn't all know). Three of the CBC boys who will soon be up before the RI for ticket examination are Reg Hall, Al Stapleton and J. M. Laporte. Al Stapleton has an 1155, a folded dipole up and is just finishing work on a Millen exciter design rig.

W9EJX has passed along the final edition of the Vel Newsletter for this season with the promise that come fall again this very interesting publication will be resumed if we Vel's desire it. How about dropping Art a line telling him how much you have appreciated receiving this swell mag — we know you have! If any of you Vel's wish to get on Art's mailing list, drop down on 28 Mc and give him a call next fall.

OD lost an element in his beam during a wind storm and is now operating with only two elements. TF in Chester was heard calling CQ 6 meters crossband. YL operators think that BF at Lakeburn is "sweetest" ham on the air — his last name is Candy! PX operates on NBFM on 75 and 10 now. LK is building a new rig with 807's. W9EJX reports that he had over 250 contacts with over sixty Ve1's during the current operating season on 10.

AK is still going strong with the dx score and so far on 20 and 10 has logged over 100 countries. EW is dreaming up a new 20-meter beam in his spare time. FC had some trouble lately when he heard his 80-meter antenna scraping up against the house and then looked out to find a couple of young hooligans had broken off one end and were casually rolling it up. JO ran into the same trouble some time ago when some nasty little fellows pulled his ground wire out of the window and almost yanked the entire rig with it. PD is active using battery power and dynamotors — big

event for Murray will be the installation of 110-volt lines in the near future. BM is building up a new rig to operate 80-40-20. NT runs a 28 Mc mobile rig as well as a 235 Mc job. IZ says that he is just fooling around these days since he hasn't had too much time to spare for ham radio. IF has abandoned the AT7 for a xtal-controlled job-pr 6L6's and is on 40 these days. EE has a slick new job now on the assembly line using an 813 final with Class B modulation. DI is busy these days looking for a house in St. John. JN in Fredericton called FL and EE recently for a QSO on the land line! AN reports that he has had a bad winter this year with all the cold—froze up his water pump all the time (must be using high power with water cooled bottles!). IW was in the dx contest and piled up 108 points on 40 using only 30 watts. LG has a new Collins transmitter, DR has moved from Collins transmitter, DR has moved from Bridgetown to St. George, N.B. FL has left CVTS since the school has been closed down. EH has closed up shop and taken a job as an operator, we understand — think he is with the D.O.T. in Halifax. FU has junked the AT7 and is going to have his new rig on soon. LI, being a travelling man, doesn't get much of an opportunity to get on the air these days except on week-ends. WG now is working at radio station CKNB. ML in Fredericton re-ports that the U.N.B. radio club is going great guns and that flea-power transmitters are all the rage up there — CW with about 1/2 watt, One enterprising character souped up his rig to the high power of three watts and worked a Wl. The Shore Radio Club has a new execu-tive: President, LR; vice-pres., OY, and secre-tary-treasurer, NA. DN is the club call of the Dartmouth Radio Club. RK is the call of the radio club at the University of N.B. QZ is the new president of the Halifax Club; Lakeburn Club recently held a gala chicken dinner in Moncton. Next time how about building it up to a Vel hamfest so we can all get into it? A new club is in the wind — the 18 or so hams in Sackville are going to hold an organization meeting soon to discuss the formation of a club in that town. BB is thinking seriously of going u.h.f. in the very near future. LR and GR were recently heard doing a swell job on some emergency traffic from Vo-land concerning a sick woman at an isolated spot. VS is the call sign of the radio club at the Vocational Radio School in St. John. FL has his transmitter for sale, as it has too much power to use at his QTH. The L.C.A.R.C. Bulletin has grown up to the stage where it now accepts advertising and a swell publication it is too under the very able editorship of FV. For the latest Caandian news affecting Canadian amateur radio in particular listen to the official CAROA broadcast station in this district-Ve1GD-each Thursday, 9 p.m., 75-meter

fone. More news as follows has just arrived from the Halifax Amateur Radio Club; AX is going to have a dual 10-20 beam soon. NE is working dx like mad on 20. SP is active on 20 fone now. DI is now a St. John QTH. IH is on 20 fone. LY has tucked his beam away where BCL's can't see it. GC is thought to be on 80. MS burned out power transformer-now on low power 20 fone, RP has no known activities outside of dx. EO is on 20 CW. HT is working dx on 40 CW. NP is still on 20 fone, only 100 watts. FB is blasting from the north end. PT is cranking up on 20 fone with an 813. RP has apparently disappeared from 20 fone, DQ has a "Command set" VFO working "narrow-minded FM". HP now located at Greenwood and working the "better type". 'TH is inactive through no fault of his own. ET worked hard in the dx contest. RU is still dxing. PX is on NBFM on 3854 Kc/s. Howsa BCI, Charlie! LK is building a new final, for single band operation! MZ has a new beam rotator. LZ is building a new exciter. BC rumored returning to the air. QR was heard on ten. EK is going "hipower" with 829B. FN and the Tower are going to Ottawa. VO6EP (ex-1EP) has 54 countries from now QTH. FQ is still keeping skeds with Ve8's on 20 and also 2 J's. HV is now Ve3GQ. That's all fellows - 73 Ron.

### COUPON

Please enroll me as a member of the Canadian Amateur Radio Operators Association. I am enclosing a cheque ( ), money order ( ), postal note ( ) to the amount of two dollars which entitles me to all rights and privileges therein, and a year's subscription to XTAL magazine.

Call Letters Address					
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State your	interest	in	radio	if	not
licenced	·				

REMIT TO: The Canadian Amateur Radio Operators Association, 46 St. George Street, Toronto, Canada.

Floyd G. Gribben, Ve2XR, D.R. Quebec, 5120 Westbury Ave., Montreal, Quen., phone EL. 5387-Well, gang, let's get together again and see what's doing around Ve2 this month, Now that the nice wx is with us again, ham activity is starting to slacken off and no doubt you are beginning to think of the great out-doors. The CAROA Low Power Derby and the ARRL Field Day seem to be the last two events in ham radio before we take to our gardens, new antennas, etc. Before you go outside though, how about a gander through the Ve2 keyhole to see what the other guy is doing? GM says he has one for the book. Bert's CQ brought ACU, a new ham in Longueuil, who asked Bert how fast could he copy. Bert said around 30 wpm and wondered why a new ham asked such. ACU shot back at 30, then Bert asked what was going on. ACM said it was his OM on the bug! On the next transmission from ACU, Bert was getting it at about 20 wpm. When Bert asked who that was at the key, ACU shot back, "that was my mother at the key!" What a family! All brass-pounders! LQ of St. John's has his bed at the airport and what's more has his rig, an AT-3, right alongside for convenience! IG uses the arm on 40. AG does the same on 80. AAI is a newcomer on 80 CW. XA of AAI is a newcomer on 80 CW. XA of St. Therese has 813's sweating it out at 500 watts on 75. ABG is Andre Baribeau of 3rd Ave. in Rosemount who works on 80 CW with a 19 set, ACN had his first QSO on March 6. George works on 40 with 1154 transmitter and 1155 receiver. You'll find him set up at 34 Prince Edward Ave. in Valois. Welcome, George! JK whacks it out on 20 CW. ACF, Art Strange, is a new ham in Verdun, running an 807 on 10 CW. WW, our dx man with the farm location, runs 500 to 813's and is latching on to an HRO. Al uses 1154 rig on 80 CW and is proud of working into West Indies with same rig on 75 fone. MO of St. Lambert uses the arm on 40. OA, ABO, and ABQ do the same stunt. XO and WR of Yamachiche are on 40 regularly. VL left CPA at Dorval air-port for one-month stand at Mt. Joli field. Hurry back, Rud. DX has new Hammond 10-meter beam. XX has nice (?) things to say about Dorval hydro! JJ made his debut on 6 using his main rig with 812 final plus a dipole in back porch! MW moved from Montreal to Shawinigan Falls and is now on 80 XB having antenna troubles but nice wx should find new wire up. HK modulates his final on 20 WK is proud of his two G's on 75 fone with 30 watts to his 807. Saturday, March 27, brought a severe freezing-rain storm to the Montreal-Quebec City areas, Aside from the many ham antennas downed by icing, the Bell Telephone Co. lost around 800 poles and miles on their lines between Montreal and Quebec. Certain areas were without power as well as telephone. Fortunately, the sections of Quebec City where RM, HB and LZ are located were not without either of these services. Great praise is due these lads who stuck to their mikes on 75 and took everything shot at them in the way of QRR traffic from the

boys in the Montreal area. Well done, Quebec! RE in St. Lambert acted as control point. SA. HV. HM, QL and DD all did a very fine HM, QL and DD all did a very fine job for the telephone, the power and the railroad companies in getting the vital traffic thru to Quebec. All this work would have been seriously hampered by QRM had it not been for the very effective efforts of Ve3YI in Collingwood, Ont., who kept our Ve3 brothers off the air from 3800 to 3815 Ke's to give us a QRR band. And so, gentlemen, we, and all those you have served, salute you! BEEF DEPT. The biggest item of complaint you fellows have about XTAL is the lateness of its arrival. The boys at HQ sure have been struggling like mad to remedy this but with so much reorganization taking place (a normal happening in any new and growing concern) delays have been inevitable. To make things worse, just when they thought they were roundworse, just when they thought they were rounding the corner, the printing plant in Brampton Ont., where XTAL is printed, was flooded! That's why March issue was late. So fellows, please understand that the gang at HQ are mindful of your feelings and beg your forgiveness and indulgence. They promise to do better as time goes on. Remember, if you have complaints or suggestions to make, by all means let them know about it. Then you can get some action. LO of Drummondville sonds. get some action. LO of Drummondville sends in his usual FB letter. John says he is kept QRL with traffic on 40 on 7162 along with BR of Lachine with W1LM near Boston getting their stuff. Both John and Gordy want traffic with Quebec City and so far they wonder if the capital city has any hams on 40 'cause they cant hear any. What say, Quebec? John, LO, says he is trying to build a table monitor. He also relates that he's been in radio for the past 33 years! Thirteen of them on board ship on the North Atlantic. As a land-lubber he's been spending the rest of his time at the Marconi Beam Station near his QRA. If you want to gab with an old-timer, give John a call on 2773 or 7162. LF of Vercheres sends in nice letter too. Says he's building a panoramic adaptor and a phone rig for 75 with 807's. He receives his sigs with an S-40. Says his xyl is up to 12 wpm now so it looks like another gal will soon be on the air, men! LF says his brother-in-law is VelUU in N.B. Hope to hear you on soon. Asselme, OM. AAV is new on 6 from Dorval. MT has potent sig on 40 with YP of Sorel on about the same frequency. ACZ is new in Lachine. XR visited his brother-in-law in Galt, Ont., 3XR (yep, that's right hi) and also saw 3UM and 3ABZ in same town as result of QSL stuck on car. Also saw 3MI and CAROA office in Toronto. Montreal Amateur Radio Club's march meeting on the 31st contained the following highlights. Joek Black, FW, who won that NC-173 at last December's meeting, donated his former receiver, an S-20-R, to the club to be raffled. The proceeds, \$131 in all, went into the food parcels for G's fund sponsored by the club. A lad by the name of Jones who had no receiver at all and who is a SWL, took it away with his lucky number. AW. Roy Stiles, lectured the junior group on power supplies, while G5FK, Fred Cable, now a M.A.R.C. member,

gave the senior group a talk on television as based on his wide experience in Britain. Herman Eberts, our Convention Committee Chairman, awaiting a call, spoke on the ham-fest plans. Fred Looker, TY, very ably intro-duced G5FK to the meeting. Alex Reid, BE, our ARRI, CGM, reviewed the new VE phone assignments. Those of you who still have not renewed your license, please take note that when doing so to send your two and a half bux to the Inspector of Radio, Room 403, 400 Youville Square, Montreal, Don't send anything to Ottawa! Catch? DL is now Official Broad-caster for CAROA. Listen to the bulletins on 75. CAROA would like other amateurs interested in this work. If you have a 75-meter phone drop a card to CAROA HQ if you would like to spend a half hour per week airing these bulletins. UW, our P.Q. QSL Manager, has 5,000 cards piled up around his place, and he wants you guys to send him a large, stamped, self-addressed envelope so's he can clear them out to you and get more room around the shack. Send that envelope right now to Austin A. W. Smith, 6164 Jeanne Mance St., Montreal S. LOUIE THE LID SEZ . . "An after dinner speaker is a PM!" GE QRL building rigs for other hams. FX first customer and on the sin tests beinging in others. Nice sound on the air tests bringing in others. Nice sounding products, Gordie. A large number of you fellows are French-speaking members. For that reason it was felt it would be fb if you lads had your own Ve2 French news column in XTAL. This idea was suggested to HQ and favorably accepted, so I was asked to go ahead and find someone who would be interested in this work. If you are interested or if you know of someone who is, please drop me a line about it. A reminder of Ve band changes since April 1. On 80 the W's have had 150 Kc for phone but they want 50 more, so they will move to 3800, giving them 200 Kc up to 4000. This move will take over our old spot of 3800 to 3850, so we had to move. Now our camp is 3750 to 3800. Our own private Ve band isn't any larger and the CW man loses 50 Ke's. For NBFM we join in with the Yanks and can use it from 3800 to 4000. On 20 the W's want to extend their phone from their old limits of 14,200 to 14,300 to 14,350. (Remember that we eventually lose a 50 Kc slice which has taken us up to 14,400). Like on 75, we can operate anywhere in their assignments. Our 50 Kc apot on 20 is still 14,150 to 14,200. NBFM we can use this same 50 Kc. care to mix with the boys over the border there's 50 more Ke's ending at 14,250. On 11 the band is 27,160 to 27,430 with AM or NBFM all the way. On ten it's 28,200 to 29,700 for both as well. Anything higher, use the works for the works! Remember, on NBFM the maximum allowable deviation is 3000 cycles, or a total of 6 Ke. KH is fourth in 50 Me W A.S. Derby with 17 states. OD is on 6 at Three Rivers, IX has Hallicrafters station. He uses HT-9 rig, SX-32 receiver and SU-44 panadap-tor. All on 10. PF of Pontneuf modulates his final on 75. TQ is on 75 from Seven Islands away down the St. Lawrence. The April issue of "Radio," the CBC's employees' magazine, gave tribute to the hams employed in their

services with photos and personal ham histories. A regular monthly ham gossip column will also appear in this magazine soon. There are still many of you fellows who have never been mentiozed in this column. If you are one of them, why not do something about it? Remember that the other fellow would like to know what's doing in your shack. He's part of ham radio, too! Why not let him know through this column? It only takes a few minutes to send in the dope. In so doing XTAL becomes more interesting to all of us. While you are at it, include news of fellows you know. The QRA and the phone number is at the head of this column. Let's make this Ve2 column the largest in XTAL! There you have it, gang. Let's meet here again in the June issue. Lots of luck in the Low Power Derby and the Field Day.—73 Floyd.

has 10 watts on 10 phone with good results. Mint at GQ worked half the hams in Gibraltar, ZB2A that is. RO, George, worked the second half of the contest with the antenna fueders broken from the vertical radiator. KK has dual 6 and 10 beam with about 500 watts on 10. That's one way of getting 'em, Ted. FJ has completed 750-volt brand new power supply and is building an exciter for an 829B now. Hopes to be on at least 20 CW before the end of April, NH has been doing his best between trips to get a 10-meter receiver built up; it's a converted W.A. job, aircraft receiver. DO thanks those hams who came back to his directional CQ from 3BON. It was necessary to contact the xyl on important business and the locals weren't too fussy about co-operating with the exception of one or two who did a fb job.—73 Les.

### Ve4

Les Saul, Ve4JF, Dr., St. James, Man.—Many thanks 4SH. GG new station on 10, located at Sanford work by LF. 4WB has home built Q5er and says its FB for the QRM. 18 uses XE10 exciter on 10 and 11 and runs 225 watts with good result. JE and SJ have BC459 sets, hope to be VFO soon. Art at BM has home-built XE10, sounds good and kills BCI. On the March 14 short skip opening JE, SH, WB and EX worked out in the late evening. MJ at Lac du Bonnet is working all 10 meter dx heard in Winnipeg. SH pulled in the Hallicrafter-Ghatti expedition in Nairobi, Africa, during the dx contest. RP leaves the groove of 20 to get back to his old 10-meter stamping ground with low power and a three-element beam, works a good share of dx too. LC having modulation troubles—R9 carrier, 5 per cent modulation. He blames parasities. EX has efficient home-built converter for 10 and plans to use it for mobile reception in his car. SJ having troubles with only one three-way plug in the house. EA

Ve5

Bill Gordon, Ve5MW, DR, Oxbow, Sask.— Things are looking up in the Watrous vicinity -10 active hams for a town of 1100 and two more budding. The CBK gang all operate within an area of half a block due to the staff houses being together. Antennas are quite a problem. However, the fellows co-operate, as hams do, and having six good (?) junk boxes to use when working on a rig is handy. boxes to use when working on a rig is handy. HH has his Bendix TA12 going and has good reports on 80, 40 and 20 with a separate rig for 10. New call at Watrous is NB (ex-1SY) from Sackville, N.B. Tnx, HH, for dope on Watrous gang. IC kept us posted on the big bonspiel at Nipawin. QB is on 75 fone. MW has new modulator, mike and 75-meter zepp. HI is building a 140 vertical from tomato cansuldered and to each LC is building a 58P1. soldered end to end! IC is building a 5BP1 scope — also has new C2 freq. meter. DW has new jr. op. If Jack wonders how we found out he wants to be careful what he says on 20 short skip! DI, ES and DK are on 75 fone from Weyburn. Ten minutes of silence was observed February 3, 11.00 to 11.10 in tribute to the late Ve6WC. Flowers were sent by the Ve5 gang: CO is experimenting with NBFM. CE sent some 807's to a ZL who replied with a very nice letter. Evidently the 807's down under are inferior to ours. OC and JV have been getting plenty of dx cards. JD is a new call at MJ. OP and OM visited Regina hams and were given a good welcome. The R.A.R.A. was held in the armouries. GD did a bang-up job on an illustrated lecture about oscillators and buffers. Following Gordie was Mr. Marshall of the R.C.M.P. with some technical dope on R.C.M.P. work. The association have de-cided to hold a hamfest Sunday, May 23. Your co-operation is desired; also would like to know what part your club could play and what equipment could be brought. Drop a line to the secretary, Art Driver, 5CM, 1900 Robinson St., Regina. RD has two surplus command transmitters. KJ advises us that TLI is quite active, handling over 325 messages to March 1. There aren't many connections for TLI in Saskatchewan except LV and MJ. KJ has a

### LEARN CODE this easy way

 This automatic INSTRUC-TOGRAPH machine will teach you quickly to send and receive code (Marse or Continental). It comes com-

plete with code tapes and instruction back, gives clear signals as fast or slow as you wish. Law Rental plans, clockwork models, for 1, 3 or 5 months. New machines for sale, Electric Madels included. Write for folder giving full details.

Also Day, Night and Home Study Courses in all branches of Radio Communications.

RADIO COLLEGE OF CANADA 54 Bloor St. W. - Toronto Conadion Rental Hdatrs, for over 10 years. new genemotor which is rated at 575 volts, 160 ma. Keep the dope coming, fellas. The co-operation has been swell. By the way FA and GA have been appointed Official Broadcast Stations for CAROA. Listen for them each Thursday, 9 p.m., 75 fone. Tfc. KC-60, MW-11.

—73 Bill.

Editor's Note—'The absence of Ve5 news in March and April issues is through no fault of Bill's. HQ takes full blame because of change in organization of departments. Our apologies—it will not happen again. Don't forget to send your news early to Bill, as printer's deadline is now the 10th of each month.

### Ve6

W R., Savage, Ve6EO, DR, 329-15th Street N., Lethbridge, Alta.—60F is having a job trying to find a space to erect an antenna; he has a rig completed with an 813 final. 6HS has a very nice CW signal on 80. 6EB has rebuilt his modulator and final amp. He is now using a pair of 8000 in the final and can run up to 450 watts, 6KU and 6TA get snowed in, and food for them and other residents of that district was flown in by plane, 6EL is building a 10-meter transmitter for his car and trying to get an S40 receiver to use in the car also. He expects to have every thing perking for the hamfest this summer. 6JP is going to try an antenna tuner, as he is having a little antenna trouble. 6SW must have had a holiday; we hear him on 75 for the first time in about a year. 6AL has his new rig going now and is using a pair of 805's as modulators. 60D has built up a three-inch scope and now is making tests on his rig, 6FE seems to be working some nice dx lately. 6SP is working on 75 fone now, 6BM is heard on 75 fone now with a very nice signal. 6SL is heard on the air again; wonder where Johnny has been so long. Ex-6IC now 7EO says he has been too busy lately to get on the air much although he has his 813's going and says it really puts out a wallop on 80, 40 and 20, and is going to wind up coils for 10, 6MC says he just needs Asia for WAC; hope you make it soon. 6AF must be a new call in Edmonton. 6AC has been at it again, travelling around and looking over some of the boys rigs. He says he thought 7MQ had an electronic heating plant when he looked behind his rig and some 8002's in his final. 6KS says he has been working some nice dx on 40 — KZ, VK, ZL, ZS, G, OK, LA, OX. Well, why not work a PY or OA and make a WAC, Harry? 6NB has just put up an all band antenna and made a tuner for it. He claims to have shot an eagle with a wing spread of seven feet this winter. 6JJ pops up on 75 fone now and again for a QSO. Jessop can't stand QRM so stays on 10 mostly. 6EO is very busy building a five-inch scope which has cut down operating time considerable, 6BC is working in Ked Deer clearing up the tele-phone situation. 6KO has a pair of 807's in the final now and is really going to town with them working dx. Ex-6FO is now over in England as Communication Supervisor for T.C.A. Nice going, Bill. Suppose we will hear

a G stn, calling us one of these days. Lots of luck to you and Betty. 6OX gets on the air over the week-ends. 6PP is busy making recordings now. We overheard Pere reciting a poem of "Our Albert at the Zoo" one night and I am sure if he made a recording of that he could not supply the demand. 6MP is getting some publicity in the Boston News. What have you been doing now, Maud? 6HZ gets bologna for supper and Glen says he ate so much he couldn't climb up the snow drift to put the elements back on his beam. More bologna (hi). 6MH is putting out a nice signal on 75 fone. 6CR has worn out his mike calling dx stations. 6EB is really putting out a signal with his new rig which is running 250 watts. 6PJ says he just about go! flooded out, water was only one inch from the garage door. 6HI is using a pair of 813's with grid modulation, and is doing fb. 6MA will soon start on his new job with the LH.C.—73 W. R. Savage.

### Ve7

Ernie Savage, Vc7FB, DR, 4553 12th Ave. W., Vancouver, B.C.—Well, here we are after missing one report through having contact with beautiful car and girl who decided that the sidewalk is a better place to pick on pedes-trian, and that put us away for three weeks. So now let's see what the main subject is, and it seems that it is the new frequency bands that we are to get. If you like to have some code practise look for Ve7DZ on 3765 Kc around 1900 hrs each night. He takes it easy and is pretty smooth on the key. 7DB, Bill, way up at Oliver, has his farm well started and now has started the antenna farm with the first 35-foot poplar pole. Over on the Island, Nanaimo has started a radio club and looks like there will be plenty of things doing there before the year is out. 7AFH, Bill, who is busy at the photo business, has been gather-ing in the equipment, and all he needs is the urge. 7YI, Wes, has sported himself to another crystal and moved up to 3850 Kc's and was one with 7WP, Art, to be on the QRR net. Port and Alberni are also busy with improvements. First the power company ran in their new power, and that gives the boys better regulation on the air. 7CX, Stan, has a truck spotted now that causes all his QRM. Its time and distance is all computed and he is transmitting when it is coming and going. 7HE, the happy engineer, paid Vancouver and us a visit last month, and there seems to be ideas behind some talk of antennas and new transmitter, and that could be why we don't hear bim. 7PY. Dave, was on in the evenings to handle any ORR traffic. 7LN, Len, who was Ve6LB of Viking is out here and is on eighty CW. Ve7ABO, Len, up where they make gold bricks Privateer Gold Mines, was stewing up some mulligan when in QSO with the 5 octocs net there was a whoop and shout-a rat had fallen into the mulligan, never did hear whether it was eaten or what. Ve7GC, Dick, a welcome voice from Alert Bay, and puts a good signal into Vancouver, Victoria and way points.

Ve7OM has rebuilt the rig from both ends and is using PP807s on 40 and 80 CW. It has been rumored that Bill was looking and asking questions re fone,

Ve7EI, Bob, at Lake Shalath has spent a good six months in designing his new rig. Well let's hear it, and see what it sounds like. Ve7DF Nelson has the rig all in the rack now and was showing his newest rig off at the club all in a small tin not more than the size of loaf of bread. Ve7LF Jim who was Ve7AHH has changed his calls and still sounds the same. But is complaining that the club hold their meeting the same night as it is his night to stay in and be sitter, of course it could be a good excuse.

Ve7SL Dud has been reported down with the flu and also that his new rig is coming along very nicely, Ve7US designed the speech for the rig. Collingwood Radio Club held their Year End Party and it was a roaring success. FB cold turkey, ham supper washed down with beer. Liars, joke and story contest followed. Music was supplied by Aub Verge and 7ABP. Ve7AZ Jack did some fine singing. VeVF told the best poem. Ve7VD Ben was a guest from West Vancouver (I wonder if that wasn't done for reason to make amends or to keep Ben in their good books. I must get in Ben's good books soon or he will have his boys after me) Ve7WH Bill brought the CBC wire recorder for some fun. rou mi read the paper about the bandit that tried to rob a radio service shop. Well the hero is Ve7ABP Jim Summerby who aided in the capture. Ve7UU Alf is still building converters, wonder if he will be hanging out the shingle. Ve7OJ Gordy is very active on twenty CW. Ve7AIH heard a crash, it was his four element beam and fifty foot pole coming in for the night. Ve7AKK Ed it is rumored is building for more power. Ve7LF Cliff working on ten phone rig. (Did you hear or read the OBS regarding ten meters harmonics, something to wonder about). Ve7AJR Spud is not been seen much since he hooked an XYL. Vancouver Radio Club has had their club room sold under them. So they were out for only a day as the McGavin Bakery has given their board room to the club and it looks like they will be there for some time now. Also the big yearly dance is in making and it will be bigger than the last one if that is possible and we have the same hall which even then was a good fit for the gang of the Ve7 district and visitors. Ve7RF Jack is still Ve7 district and visitors. Ve7RF Jack is still stuck on eighty CW and is using the good old "Jones Super Gainer." Ve7FB Ernie is now planning all band fone and CW, all we need is the antennas and room to plant them in. Ve7AKF Bob is still working on the ten meter rig. What is it Bob? Ve7AL King is back on the air but the power he has put on is now out of control and only goes up in smoke.

Summerland Radio Club is holding code classes three times a week and will have the polish on four members in sixty days and then up for their ticket,

Then there will be great activity from there. Vernon Radio Club has a membership of twenty-four and there are eight licensed amateurs and the balance are waiting the R.I. visit this year. Ve7HW Bert is busy building

his house, but still finds time to experiment, not on the house, I hope. Ve7VT Don is quite the dx hound around here, snagged South Africa and two Newfoundland stations all on a pr. 807 and rotary beam. VetJU ex Ve4JU Al is too busy trying to pound some sense into his pupils at school, but is busy building re-ceivers and amplifiers. 'Tis reported that his collection of parts could put a full gallon on the air and his taunts have the boys scared that he may. Ve7AJF Hugh is active on seventy-five CW, using inverted L antenna, inverted L 132 ft. on a 75 foot lot you see. Ve7LP Jim who was Ve7AHH thought that by changing cells it would foot the cities. by changing calls it would fool the citizens and they blame someone else for the QRM and QRN. Ve7FT ex-Ve6DI Lorne, who assists Laurie by being chief engineer to the local broadcast station. Ve7SO Wally is still on 75 and and is looking for grid drive for his 810's, so till then twenty meters is safe. East Kootenay Club is waiting for their PE-104 for their portable and emergency transmitter. Ve7FL is sporting a Sonar VFX 680 exciter. Ve7XM Jim is also looking for grid mills, seems that it is a lost or scarce article (Bulletin Nr 15 is asking for just such articles, so when grid mills is found let's remember lease it so all can use it. Also if you wish I will be pleased to type it for you and send it in.) Ve7HH is a new call and 616-807 with 1155 on 40 and 80. Ve7AJM sporting Xmas present nice call letter for his initials. Ve7TV has new junior operator, congrats Stan. Ve7AJC has bei, well is that all? EKARC is justing waiting xtals for the gang to have their net. Oliver Radio Club is very active, meets on Wednesday night with lectures on principles of radio, also cw after lectures, and Tuesday and Thursday nights on 3460 Ke's and 3755 Ke's ew practice. The members are looking forward to 6 and % meters, but first they must get their tickets and that is the way they are heading. Ve7ZW ex-Ve3XK Sandy, known as second op, for Ve3DJ, his brother in Toronto, is now second op, at Ve7TP. The storms of the last month caused plenty of trouble for all concerned and amateur radio was in there, Ve7ACW, CX, FB, DE, WP, YI, PY and others were in the picture. Ve7DE Harry lost both power and phone, but Campbell River Construc tion Company came to the rescue with AC generator. Ve7ACW CX YI-DA-WP, handle traffic in and out of Port Alberni, Alberni, Nanaimo and Vancouver. The balance of the stations kept sked with all points, and traffic that did ease the situation was passed with ease, thanks to all districts that left us 3850 Kc and also Mission Trail Net in USA who held up their net on our sked times.

Any pet ideas or suggestion send them to CAROA, or to me and I'll be pleased to send them on. Also thanks for the swell letters for this month.—73 Ernic.

Chas. M. Fftzgerald is a member who works at CKWS, on Wolfe Island, near Kingston, They have an FM transmitter, and Charles would like dx reports. Any offers?

# Dear OM ...

Yarmouth, N.S.

Editor, XTAL:

I would like to point out something which may have been overlooked. The starting time of the W/VE contest is 8 p.m. local time. Now as the Vel's are on Atlantic Standard Time, there are no W's they can work for one hour, until the Eastern Standard Time stations come on the air. This seems to be a disadvantage, and perhaps the Vel's should not start until 8 p.m., E.S.T. and then stay on until 1 a.m. A.S.T. on the other end.

R. H. GUEST, VelCU.

-0-

Editor, XTAL:

Enclosed is my cheque in amount of \$5.00. Please apply this amount for my membership and subscription to your excellent magazine, XTAL.

You have a good mag, and you're doing a good job with it. Don't let the "beefers" get

you down.

I must make special mention of "Hydrophobia" by Ve3CS in the March issue. It's a honey of a story. I've read it twice and each time go into fits of uncontrollable laughter. That kind of humor is right down my alley.

George S. Hohnes

-0-

San Francisco, Calif.,

Editor, XTAL:

In my many years as an SWL I have received many QSL cards from radio amateurs in Canada. Just to keep the books straight, I have checked my log books here and find that the Canadian radio amateur QSL's 60%! In other words for every 10 cards I send out to Canadian amateurs I have received six cards back! That, in my estimation, speaks very highly for the courtesy of Canadian radio amateurs!

Naturally, any serious-minded SWL appreciates a QSL card from the station to which he has sent an honest report. It makes him feel that his efforts are appreciated on the other end. My stamp bill is pretty high each month, but I still think it is a lot of fun and

I really get a big kick out of it!

Hope this letter will be the means of getting other SWL's to express themselves in XTAL "Listening Section"! For after everything is said and done, what is an SWL? Nothing but an up-and-coming radio amateur just around the corner! Wishing XTAL and the "Listening Section" lots of luck.

W. C. Shay, SWL/W6 (now USRS-1)

### BOGOTA

Canadian amateur radio came through once again over the week-end of April 10-11. The first word regarding the Canadian colony in strife-torn Bugota, Colombia, was received by a Maritimes amateur station.

Saturday night H. W. Richardson, Canadian trade commissioner in Bogota, went on the air with a continuous broadcast from the Colombian capital. He requested any Canadians hearing his broadcast to notify the External Affairs Department in Ottawa that all 200 Canadians in the city were safe and sound.

Tuning across the bands in Dartmouth, Nova Scotia, Mrs. Kenneth Longley (Vel?) picked up the broadcust from Mr. Richardson. She immediately gave the news to the Canadian Press who, in turn, passed the information along to the External Affairs Department. Minutes later the good news was flashed from Canadian Press newsroom in Toronto to all the private stations and CRC stations from coast-to-coast.

Later, Ron Hart (Ve1MZ) of Halifax got through to Richardson and informed him that his message had been received.

So was written unother page in the annals of public service by Canadian Amateur Radio.

# A.R.R.L. FIELD DAY

JUNE 12th - 13th, 1948

STARTS-4.00 p.m. your local STAND-ARD TIME, Saturday, June 12.

ENDS-4.00 p.m. your local STANDARD TIME, Sunday, June 13.

#### SCORING

(a) One point per completed contact with any other station, home or portable.

(b) Originate one message addressed to the A.R.R.L. Section Emergency Coordinator or S.C.M. — 25 points before multiplier.

(c) Multipliers:

Less than 30 watts X3
30 to 100 watts A2
All power must be independent of commercial mains for X3.
Additional multiplier of 1.5 for batteries used on all equipment and not charged from commercial mains while connected to equipment.

See April and May QST for further details, All club entries for the Eveready Trophy must be received at CAROA HQ before July 15.

# ATTENTION GANG!

Nobody

Retter

Porget

Montreal

in the AM and PM of October 8th

'couse the

A.R.R.L. EASTERN CANADA NATIONAL CONVENTION

15

Very

Hinely

Organized

for you at the

MOUNT ROYAL HOTEL

so be sure and

Cave

Come

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### So You Want To Be A Ham-from page 7

key, one of those buzzer things and a pair of 250TH's!"

The counter-man bugged his eyes. "Pray, what are the big bottles for? Is this a replacement order for CFRB?"

He leaned confidentially over the counter, "Haven't you ever heard of the 807?"

I jumped right at him. "Aha, back on those initials again, huh!"

"Oh, no," he said, "this here 807 is a tube that all the hams are using. Gives you tons of soup, too! All you do is look in the handbook and double the figures that it shows and baby, what a sock! In fact, if you're lucky, you can work two bands at once! There is a little thing called a harmonic, see. If you can get a good strong one, you'll be able to get out on 80 and 40 at the same time! This saves an awful lot of coil-changing and time!"

Ah, what luck I had to meet this fine gentleman who was so obviously looking after my

best interests.

"OK," I said, "wrap me up a dozen or so and throw in a 1500-volt transformer and a couple of 300-mil chokes. Tell your delivery man to slip them under the back porch and don't let my wife see them!" (I didn't refer to her as my xyl, then, I did later and found her upstairs crying and packing her bags because she thought I had sworn at her!)

"One moment, my good man," said my newfound friend. "Here is a handy gadget made by the Whizz-Bang Electronic Corporation

that no ham should be without,"

"What is it?" I replied. "It looks like a

second-hand tin girdle!"

The clerk beamed at me. "This handy device is a conveyor belt." He pointed to some sockets on the side of it. "You place the 807's in here, and when you notice the plate meter starting to hiccough, you press this button. Presto! You have a new tube in the final!"

"Gee," I marveled. "I'd better have one of those, I wouldn't want to be caught in the middle of a QSO with my plates down!"

The following weeks were hectic. I was in the middle of that weird process known as "brushing-up-on-the-code." I ate with phones on, I slept with phones on, my wife had to lift them off to talk to me, twice I went to work with them on my cars. (It was winter, fortunately. Say, those War Surplus fones really keep your ears warm!)

Two weeks later the sun rose on the fatal morn, this was the day of my amateur examinations. After putting the coffee in the frying pan and breaking two eggs into the percolator, I weaved out of the house to conquer the D. of T. Visions of ZL's, J's, G's and other choice dx wafted back and forth through my head. I was really hep now! I knew that side-bands weren't something that a fat woman wore to improve her figure and that a low-mu tube wasn't something that Bob Burns blew into.

When I finally came out of my daze, I found myself timidly knocking at a door marked, "Radio Inspector" and a voice was bellowing at me to come in.

I cautiously opened the door and peered around the corner of it. The same kindly old gentleman was there and he motioned for me to enter.

"Here we are back again, I see! Just put it there, sonny, and slip these doin's on your ears and then we'll get down to business," he said, with a chuckle like Boris Karloff.

After a few practice rounds I said I was ready and away we went on Part One of the examination. He tapped it out for a while and I gave him sample of my fist after he was through.

"OK," he said, "that wasn't too bad, I guess you know you code fairly well, but remember

that 'the' is not spelled 'T-5-S!"

Two hours later I handed him my diagrams and he perused them with Hmms, Mmms and Aha's. Finally he said. "Fine piece of work lad, but haven't you heard of schematic diagrams? You really don't have to draw picture of all the components! Now let's have a few oral question. Can you tell me what BCI is?"

Oh boy, I was ready for this one, initials

were my meat now!

"Sure," I said. "That's known as Broadcasting Cute Innuendos! It's a special feature that hams put on for the neighbors' benefit so that they won't become bored with the

regular program!"

I got a queer look after this one and he finished the rest of the questions up in a hurry. "OK, pay two-fifty at the wicket, and I guess we will be hearing from you shortly." He looked at me again and wrote something down in his little black book.

For two solid weeks, the postman used to break into a run when he hit our block. I fooled him though. I used to tackle him from behind the lamp-post! "I'm telling you, I didn't lose a letter," he panted, "there isn't one for you yet!"

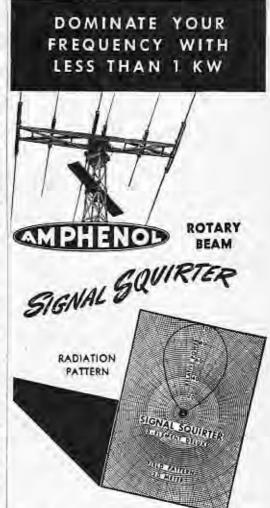
I was oiling a bear-trap at the front door one morning, when lo and behold, I spied the postic sauntering up the street waving a letter gaily around his bandaged head.

I ripped the missle open with shaking hands and there was the joyous news. I was now a member of Ve3's!

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Every story must have a moral:

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With the Signal Squirter you can have full performance on both 10 and 20 meters and know your signals will punch right thru the QRM to your desired station. You use less power due to the remarkably high efficiency of the rotary beam Signal Squirter.

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### A.R.R.L. VHF PARTY

Starts 2.00 p.m. local standard time aSturday, May 22, ends midnight local standard time, Sunday, May 23. See April issue for scoring.

Canadian amateurs will soon be receiving from the Radio Amateur Call Book, a card asking them to check their QRA's and to return these cards if changes are necessary.

The R.S.G.B. will be running its National Field Day on Saturday and Sunday, June 5 and 6. There will be many G's operating, and they will put the letter P after their call, e.g., GAA/P. Each R.S.G.B. district endeavors to operate four portable transmitters on 1.7, 3.5, 7, and 14 Mc. Contacts with Canada will be appreciated by these low-power stations.

On March 30, Ve3BWY (Toronto) worked VK2ML (Sydney) on 14 Mc and reported VK's signals as RST 56/79 when he was using 100 watts input. Without warning the VK reduced to .44 of a watt using 180 volts on his 813 CO; his signals were then 459. He was unable to reduce power any further, but it seems he would have still been readable quite easily, if it had gone down to .1 watt.

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### MESSAGE HANDLING REGS.

In response to a letter from J. H. Stone Ve3BCP of Pagwa and others regarding the regulations governing the handling of messages by Canadian amateurs, we publish below Section 64 and 65 of "Extracts from the Radio Act, 1938, and Regulations Issued Thereunder."

64. The working of Amateur Experimental Stations is limited to point-to-point communication with other stations similarly licensed, either by voice or in the International Morse Code. The transmission of commercial messages, or those having a commercial significance, which would ordinarily be sent over existing telecommunication facilities available to the public is strictly forbidden.

65. No tolls, fees or other consideration shall be received, levied or collected by the licensee on account of any service performed by the licensed station.

CAROA HQ's is contacting the D.O.T. in connection with any revisions or amendments to the act which may have been made lately concerning amateur radio, and will publish the same in an early issue.

### REVISED REGULATIONS

We have been advised by D.O.T. of the following changes in amateur frequency allocations, effective April 1, 1948:

Amplitude modulation subject to the conditions shown on the current amateur station license is permitted on 3750 to 4000 Kc, 14150 to 14350 Kc, 27160 to 27430 Kc, and 28200 to 29700 Kc.

Narrow band frequency modulation with maximum deviation of 3000 cycles, subject to the conditions shown on the current amateur station license, is permitted on 3800 to 4000 Ke, 14150 to 14250 Ke, 27160 to 27430 Ke and 28200 to 29700 Ke.

On all amateur frequencies above 50 Mc, A1, A2, A3 and FM are now permitted.

Mr. J. E. Harker, Victoria, B.C., who has been R.I. in the Vancouver district for many years, has retired. Mr. Harker was one of the early radio pioneers of B.C. and has been a friend to hundreds of western hams.

### A PAGE FOR YL'S AND XYL'S?

It has been mentioned several timely lately that XTAL should carry a page devoted to news of interest to the fairer sex. CAROA is very much in favor of this, and thinks it would be a welcome addition to the magazine. Since in Canada there are a goodly number of feminine hams, both married and single, what is your pleasure, ladies? Can anyone suggest who could ably handle such a feature? One does not necessarily have to be a resident of Toronto, or even a Ve3, to have a feature column in XTAL.

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The new BUD CPO-128 is a dual purpose unit that operates as a CODE PRACTICE OSCILLATOR until your amateur license is obtained and then as a good C.W. MONITOR after you are on the air. Its function as an audio oscillator enables



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For the "ham" who is conscientious in his compliance with federal regulations the BUD FCC-90 Frequency Calibrator is a must.
It is a 100 Ke crystal oscillator that is COMPLETELY SELF-POWERED! That's where the money saving aspect of this item comes in.

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MFG. CO.

58 West Cordova Vancouver, B.C.

Ve7YD

### 50-Watt Transmitter-from page 9

which will be 100 Ma, for phone (200 Ma, for CW). With everything running normally, remove the plate voltage, disconnect the antenna and connect a 40-watt bulb in its place. Apply plate voltage and tune as described previously. drawing 100 Ma. At this point close the switch to the speech amplifier and modulator. The plate current will be approximately 55 Ma. (meter in fifth position). Talk into the microphone and the plate current will increase. It should not be more than 100 Ma. maximum for approximately 95 per cent, modulation. You will notice that the light bulb will increase in brilliancy under modulation. Check your speech quality in your monitor. There is no necessity to put a phone signal on the air until you are sure it sounds OK. Dummy antennas are used for this purpose. When you are sure everything sounds OK, remove the dummy load, connect the antenna, draw 100 Ma, then call CQ and the performance will be gratifying.

### Performance

Using a folded dipole antenna made from 300-ohm ribbon 25 feet high and pointing north and south, the writer has worked W5's, R5 and 20 to 40 DB over S9. Reports from El Salvador and Costa Rica were R5 and S9. Newfoundland R5 S8-9, Vel's R5 S9+, Scotland R5 S7-8. I could go on and on, but try it for yourself. You will be pleasantly surprised. You can always use the rig to drive a high power final. See you on 20 meters.

The expiry date of your CAROA membership is carried on the addressing stencil on the front page of XTAL, 3/48 meaning that the last copy of XTAL that you would get would be that of March, 1948. If you watch this date, and send in your subscription, you will avoid receiving expiry notices from us.

Ve2BB, 2299 St. Joseph St., Lachine, P.Q., wants to hear from any Ontario amateur who is interested in being a member of a traffic net, the operating speed of which will never exceed 15 w.p.m. He needs an Ontario outlet for this slow-speed trunk line, which originates in the States. Both 2BB and 2LO are the Canadian outlets, and they are desirous of extending this net east and west across Ve2BB's operating frequency is 7162.5 Kc, but the main frequency of the net is 3545 Kc. Ve2LO (Drummondville) will be QRX between 7.30 and 8.30 p.m. EST on 3545 Kc, and Ve2BB between 8.30 and 10.30 p.m. EST on 7162.5 Kc. Will any Ontario amateurs interested please contact either or both these Ve2's.



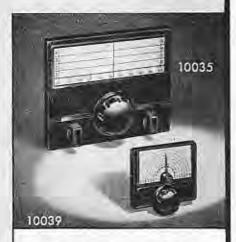
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### HAM-ADS

Copy for Ham-Ads must be received before the tenth of the month preceding issue. Rate is 25 cents per line.

WANTED-Manual for AR6 Receiver.-T. E. M. Dymond, Grimsby, Ont.

WANTED—Swinging Choke, 500 Ma. VE3JR, 16 Reigate Rd., Toronto, MU. 5701.

FOR SALE—Pair 813's - brand new. Call Bill Bell, 36 La Salle Blvd., Hy. 9370, Toronto.

QSLS for discriminating hams. Distinctive! Colorful. Highest quality! \$1.50 per 100. Samples 10 cents. VE3QS Print, 344 Pape Ave., Toronto. YOUR HANDBOOKS, QSTs, XTALS etc. bound, titled and lettered with your name and call to your specifications. For reasonable rates, call or write, Gerard Lefebvre, 4849 Parthenais St., Montreal, - phone FR. 2958.

BARGAIN IN CONDENSERS—Have assortment of standard make high voltage oil filled condensers available for immediate sale: All guaranteed in perfect condition - good as new. One dollar each and upward of five postpaid to any part of Canada. Write to Peter Fisher, Sackville, N.B., for list.

WILL buy on AR88 or 77 in good condition if price is right. VE5UK, Regina, Sask. Alf. Miller. U.T.C. 5-20 Multimatch Trans; B & W 20 BVL Coil and Swing Link; 6 Amp Tungar Rectifier; 60 Cycle Recording Phono Motor; high quality Twoway Loudspeaker System. VE3JR, 16 Reigate Rd., Toronto, MU. 5701,

LEAVING FOR THE UNITED STATES—For Sale – Transmitter, 350 Watts fone – 450 Watts C.W. – Millen Exciter, P.P. 813's, P.P. 811's Closs B – separate VFO and speech amplifier. Also 4-element rotary beam and pair of 20-meter Premax elements; other radio equipment. No junk. Any offers? VE3AFY, 150 Dowling Ave., Taranto 3. LOmbard 5365.

SELL Hallicrafter Sky Champion, price \$75.00. Gardon Charlton, Bridgetown, N.S.

PHOTOS! PHOTOS! PHOTOS! VE3ALG has the equipment and experience to do a fine job of photographing shacks, rigs, antenna installations, close-ups of technical equipment or anything else. Let a ham handle your radio photographs and get them done right. Phone or write Eric Adams, 509½ Yange Street, Toronto. Kingsdale 6380.

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